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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/772,322	02/06/2004	Cheng-Chieh Liu	0941-0911P	6485
2292	7590	06/27/2006	EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			LE, DANG D	
PO BOX 747			ART UNIT	
FALLS CHURCH, VA 22040-0747			PAPER NUMBER	
			2834	

DATE MAILED: 06/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/772,322

Applicant(s)

LIU ET AL.

Examiner

Dang D. Le

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 18 April 2006.  
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-23 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1-23 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.  
5) ☐ Notice of Informal Patent Application (PTO-152)  
6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Response to Arguments*

1. Applicant's arguments, see Appeal Brief, filed 4/18/06, with respect to all claims have been fully considered and are persuasive. The Rejection of all claims has been withdrawn. Rejections based on the newly cited reference(s) follow.

### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 7, 8, 14, and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Horiuchi et al. (5,969,445).

Regarding claim 1, Horiuchi et al. shows a container (56, Figures 1 and 8) for mounting a motor controller for a heat-dissipating device having a chassis (46), said container comprising a main body (56A) directly mounting on the chassis of the heat-dissipating device and having a slot (where 55 located, between 58 and 56B) to receive the motor controller (FETS 55).

Regarding claim 8, Horiuchi et al. shows a heat-dissipating device (Figures 1 and 8), comprising:

- A chassis (46);
- A stator (12) disposed on the chassis;

- A rotor (5) surrounding the stator and coupled to the stator;
- A motor controller (FETS 55) driving and controlling the heat-dissipating device; and
- A container (56) directly mounted on the chassis and having a slot (Where 55 located, between 58 and 56B) to receive the motor controller.

Regarding claims 7, 14, and 15, Horiuchi et al. shows the container being mounted on the chassis and pins (61).

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 2-6, 9-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Horiuchi et al. in view of Doemen et al. (4,482,849).

Regarding claims 4 and 11, Horiuchi et al. shows all of the limitations of the claimed invention except for the use of hooks.

Doemen et al. shows the hooks (179, 180, Figure 9) for the purpose of mounting the container easily.

Since Horiuchi et al. and Doemen et al. are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to include hooks as taught by Doemen et al. for the purpose discussed above.

Regarding claims 5, 6, 12, and 13, it is noted that Doemen et al. also shows all of the limitations of the claimed invention including the pillars (56).

Regarding claims 2, 3, 9, and 10, Doemen et al. also shows the container being substantially square and the slot being formed in the central portion.

7. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Horiuchi et al. in view of Doemen et al. and further in view of Horng.

Regarding claim 16, the motor of Horiuchi et al. modified by Doemen et al. includes all of the limitations of the claimed invention except for the motor controller being an integrated circuit.

Horng et al. shows the motor controller (3) being an integrated circuit with the Hall sensor for the purpose of reducing parts.

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Since Horiuchi et al., Doemen et al., and Horng et al. are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to include the sensor with the controller as taught by Horng for the purpose discussed above.

8. Claims 17, 22, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Horng (6,462,443) in view of Takashi (JP 63-039448).

Regarding claim 17, Horng shows a heat-dissipating device, comprising:

- A chassis (4);
- A stator (11, 12) disposed on the chassis;
- A rotor (5) surrounding the stator and coupled to the stator;
- A motor controller (3) driving and controlling the heat-dissipating device; and
- The controller (Figure 3) directly mounted on and protruding from the stator.

Horng does not shows a container directly mounted on and protruding from the stator and having a slot to receive the motor controller.

Takashi shows a container (16) directly mounted on and protruding from the stator (10) and having a slot to receive the sensor for the purpose of protecting the sensor.

Since Horng and Takashi are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to include a container for mounting the controller as taught by Takashi for the purpose discussed above.

Regarding claims 22 and 23, Horng also shows the pins and the integrated circuit with detector.

9. Claims 18-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Horng in view of Takashi and further in view of Doemen et al.

Regarding claims 18-20, the device of Horng modified by Takashi includes all of the limitations of the claimed invention except for the cover with the container being mounted on the cover, and the container being formed with pillars.

Doemen et al. shows the cover (28) with the container (54) being mounted on the cover, and the container being formed with pillars (56) for the purpose of making easily connection.

Since Horng, Takashi, and Doemen et al. are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to include the cover with the container being mounted on the cover, and the container being formed with pillars as taught by Doemen et al. for the purpose discussed above.

Regarding claim 21, Doemen et al. also shows the container being mounted on the cover portion.

***Information on How to Contact USPTO***

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dang D. Le whose telephone number is (571) 272-2027. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

6/22/06

A handwritten signature in black ink, appearing to read 'Dang D. Le', is written over a light blue horizontal line.

**DANG LE  
PRIMARY EXAMINER**